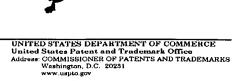


# UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,991	11/16/2001	Daniel C. Baker	PHA 51232A (VLSI.273DIVI)	4299
75	90 12/19/2002			
Philips Corporate Patent Counsel			EXAMINER	
Philips North America Corporation 580 White Plains Road			KOCH, GEORGE R	
Tarrytown, NY	10591		ART UNIT	PAPER NUMBER
•			1734	
			DATE MAILED: 12/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n No.	Applicant(s)				
Office Action Summany	09/990,991	BAKER, DANIEL C.				
Office Action Summary	Examiner	Art Unit				
TO SALL INCO BATE And	George R. Koch III	1734				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on						
2a)☐ This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E Disposition of Claims	<i>=x parte Quayle</i> , 1935 C.D. 11, 4	l53 O.G. 213.				
4) Claim(s) 1-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	priority arrable 50 5.5.5.3 110(a	) (d) 51 (i).				
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of		ed.				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	v (PTO-413) Paper No(s) Patent Application (PTO-152).				
S. Dotart and Triderrad Office						

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Art Unit: 1734

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 recites the limitation "the dispensation" in line 4. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 2 recites the limitation "the dispensation" in line 5. There is insufficient antecedent basis for this limitation in the claim.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

<sup>(</sup>e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects

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for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Subramanian (US Patent 6,248,175 B1)

As to claims 1 and 2, Sanada discloses means for illuminating the substrate (item 68), in the form of a light source, two state means for adjusting the illuminating by turning item 68 on and off (item 66), and means for controlling the dispensing of material as a function of the adjusted illumination (item 74 - See Figure 3 for entire system) in the form of a controller coupled to the light source.

# Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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5. Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Subramanian as applied to claims 1 and 2 above, and further in view of Sanada (US Patent 5,985,357).

Subramanian uses a fiber optic line, but does not disclose if the sensor (item 72) at the end of the fiber optic line is a photdiode. Subramanian merely describes the sensor functioning as being any known spectrometry or interferometry system.

Sanada discloses a known interferometry system utilizing a photodiode (6c, see column 6, lines 39-42) for illuminating the substrate much as in Subramanian. Sanada discloses that the photodiode system in conjunction with a photoresist deposition method (see column 6, lines 42-61). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized a photodiode as the sensor in Subramanian in order to provide functioning during the monitoring of a photoresist deposition method.

As to claims 3 and 5, the use of non-reflective walls for the chamber and other elements is well known and conventional in photoresist applications. Photoresist by definition reacts to light, usually by hardening, and non-reflective coatings on the chamber would reduce the amount of light impinging the photoresist during the photoresist application step, which occurs prior to the photoresist hardening step. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to ensure that only the minimum amount of light needed for sensory operations strikes the photoresist, to reduce hardening by making the interior of the chamber nonreflective.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (703) 305-3435 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-800-877-8339 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (703) 308-3853. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7718 for regular communications and (703) 305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

George R. Koch III December 16, 2002

> R!CHARD CRISPINO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700